

PATENT COOPERATION TR



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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a.113 INTERNATI	ONAL PRELIMINARY	EXAMINA	ATION RI	EPORT
	(PCT Article 36 and	l Rule 70)		
Applicant's or agent's file reference 02031WO/HB	FOR FURTHER ACTION	See Notific	ation of Examination	Transmittal of Internati Report (Form PCT/IPEA/4
International application No.	International filing date (day/n	nonth/year)	Priority dat	e (day/month/year)
PCT/EP2003/004057	17 April 2003 (17.04	1.2003)	20 A ₁	pril 2002 (20.04.2002)
International Patent Classification (IPC) or n C08K 3/22	national classification and IPC			
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Applicant	CHEMETALL GN	 ∕⁄BH		
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amended and are the basis for 70.16 and Section 607 of the These annexes consist of a to 3. This report contains indications related as a Basis of the report II Basis of the report III Non-establishment IV Lack of unity of involved as a Reasoned statement Certain documents VII Certain defects in the section of the report III Certain defects in the section of the section of the report III Certain defects in the section of the report III Certain defects in the report III Certain defects II Certain de	of opinion with regard to novelt vention t under Article 35(2) with regard nations supporting such statemer	ining rectification the PCT). Ty, inventive state to novelty, in the properties of	ep and indus	trial applicability
Date of submission of the demand	Date o	of completion of	of this report	
14 November 2003 (14.	11.2003)	24 /	August 200)4 (24.08.2004)
Name and mailing address of the IPEA/EP	Autho	orized officer		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

rnational application No.

PCT/EP2003/004057

		of the re	<u>· </u>				
1.	With	_	o the elements of the international application:*				
		the inte	ernational application as originally filed				
	\boxtimes	the desc	cription:				
		pages	1-41	, as originally filed			
		pages		, filed with the demand			
		pages	, filed with the letter of				
		the clair					
				, as originally filed			
		pages	, as amended (together	with any statement under Article 19			
		pages	, as amonded (regenier	, filed with the demand			
	•	pages pages	1, 2, 3 (Part.) , filed with the letter of				
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		pages		, as originally filed			
		pages		, filed with the demand			
	_	pages	, filed with the letter of				
		the seque	ence listing part of the description:				
	=	pages					
		pages		, filed with the demand			
		pages	, filed with the letter of				
	the in Thes	the lan the lan the lan or 55.3	nguage of a translation furnished for the purposes of international search (under Runguage of publication of the international application (under Rule 48.3(b)). In a supplication of the translation furnished for the purposes of international preliminary	which is: ale 23.1(b)). examination (under Rule 55.2 and/			
3 .	witi preli	iminary e	examination was carried out on the basis of the sequence listing:	nonal approacion, the international			
	H		ned in the international application in written form.				
	H	ĺ	ogether with the international application in computer readable form.				
		i	hed subsequently to this Authority in written form.				
	닏	;	hed subsequently to this Authority in computer readable form.				
		interna	statement that the subsequently furnished written sequence listing does not ational application as filed has been furnished.	•			
	Ц		tatement that the information recorded in computer readable form is identical jurnished.	to the written sequence listing has			
4.		The an	mendments have resulted in the cancellation of:				
			the description, pages				
		\equiv	the claims, Nos.				
		=	the drawings, sheets/fig				
5.		This re	eport has been established as if (some of) the amendments had not been made, single the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	nce they have been considered to go			
	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).						
** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							

INTERNATIONAL PR

IINARY EXAMINATION REPORT

Immational	application No.
EP/EP	03/04057

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-30	YES :			
		Claims		NO .			
	Inventive step (IS)	Claims	1-30	YES			
		Claims		NO NO			
	Industrial applicability (IA)	Claims	1-30	YES			

2. Citations and explanations

Reference is made to the following documents:

Claims

D1: EP-A-0 328 047 (EMERSON & CUMING INC)

16 August 1989 (1989-08-16)

D2: US-B1-6 284 817 (BENNINGTON LESTER D ET AL)

4 September 2001 (2001-09-04)

D3: US-A-5 855 820 (CHAN MAN-SHEUNG ET AL)

5 January 1999 (1999-01-05)

D4: US-A-3 175 991 (MORRIS LEVINE ET AL)

30 March 1965 (1965-03-30).

The claimed mixtures for the application of a polymer coating differ from those disclosed in D1 to D4 by virtue of the claimed combination of properties of particle type A: the particle size and hardness of particle A claimed in the present application are not known in combination from said documents. The claimed combination of said substance A with a further substance, B or C, or with carbon black is also not disclosed therein.

D4 is considered to be the closest prior art. Said document (see D4, claims 1, 9 and 10; examples 5-10; column 1, lines 12-56; column 5, lines 16-60; column 6,

/ . . .

line 64 to column 7, line 18) discloses the use, in welding, of polymer coatings containing, for example, ZnO and graphite. The aforementioned claimed combination of properties of particle type A is not disclosed in D1. the examples and comparative examples, the applicant demonstrates that only substance A in combination with any one of substance B, substance C or carbon black, as per the application, yields the desired advantageous combination of properties, namely corrosion resistance, electroconductivity and mechanical strength. The less advantageous properties of coatings that contain either only substance A in a polymer matrix or combinations of substance B and/or substance C and/or carbon black can be seen from the comparative examples.

For the sake of completeness, it is advised that the claims lack clarity as follows:

expressions such as "soft", "hard", "very soft", "lightly ground", "ceraceous properties" and "essentially free of organic lubricant" lack clarity and cannot be considered distinguishing features over the prior art. expression "substances based on compounds or mixtures of...such as, for example,..." lacks clarity.

From the wording for claim 26, it is not clear what acids and/or heavy metals and/or cations are excluded; in particular, the expression "and/or" appears to be misleading in this context.